SEQUENCE LISTING

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<151> 2002-08-16

<151> 2002-11-12

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<170> PatentIn Ver. 2.1

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<213> Pseudomonas syringae

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<211> 553

<212> PRT

<213> Pseudomonas syringae

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Gly Ala Ser Ser Ser Asn Ser Pro Gln Val Gln Pro Arg Pro Ser Asn 35 40 45

Thr Pro Pro Ser Asn Ala Pro Ala Pro Pro Pro Thr Gly Arg Glu Arg
50 55 60

Leu Ser Arg Ser Thr Ala Leu Ser Arg Gln Thr Arg Glu Trp Leu Glu 65 70 75 80

Gln Gly Met Pro Thr Ala Glu Asp Ala Ser Val Arg Arg Pro Gln 85 90 95

Val Thr Ala Asp Ala Ala Thr Pro Arg Ala Glu Ala Arg Arg Thr Pro
100 105 110

Glu Ala Thr Ala Asp Ala Ser Ala Pro Arg Arg Gly Ala Val Ala His 115 120 125

Ala Asn Ser Ile Val Gln Gln Leu Val Ser Glu Gly Ala Asp Ile Ser 130 135 140

His Thr Arg Asn Met Leu Arg Asn Ala Met Asn Gly Asp Ala Val Ala 145 150 155 160

Phe Ser Arg Val Glu Gln Asn Ile Phe Arg Gln His Phe Pro Asn Met 165 170 175

Pro Met His Gly Ile Ser Arg Asp Ser Glu Leu Ala Ile Glu Leu Arg Gly Ala Leu Arg Arg Ala Val His Gln Gln Ala Ala Ser Ala Pro Val Arg Ser Pro Thr Pro Thr Pro Ala Ser Pro Ala Ala Ser Ser Ser Gly Ser Ser Gln Arg Ser Leu Phe Gly Arg Phe Ala Arg Leu Met Ala Pro Asn Gln Gly Arg Ser Ser Asn Thr Ala Ala Ser Gln Thr Pro Val Asp Arg Ser Pro Pro Arg Val Asn Gln Arg Pro Ile Arg Val Asp Arg Ala Ala Met Arg Asn Arg Gly Asn Asp Glu Ala Asp Ala Ala Leu Arg Gly Leu Val Gln Gln Gly Val Asn Leu Glu His Leu Arg Thr Ala Leu Glu Arg His Val Met Gln Arg Leu Pro Ile Pro Leu Asp Ile Gly Ser Ala Leu Gln Asn Val Gly Ile Asn Pro Ser Ile Asp Leu Gly Glu Ser Leu Val Gln His Pro Leu Leu Asn Leu Asn Val Ala Leu Asn Arg Met Leu Gly Leu Arg Pro Ser Ala Glu Arg Ala Pro Arg Pro Ala Val Pro Val Ala Pro Ala Thr Ala Ser Arg Arg Pro Asp Gly Thr Arg Ala Thr Arg Leu Arg Val Met Pro Glu Arg Glu Asp Tyr Glu Asn Asn Val Ala Tyr Gly Val Arg Leu Leu Asn Leu Asn Pro Gly Val Gly Val Arg Gln Ala

Val Ala Ala Phe Val Thr Asp Arg Ala Glu Arg Pro Ala Val Val Ala

Asn Ile Arg Ala Ala Leu Asp Pro Ile Ala Ser Gln Phe Ser Gln Leu 435 440 445

Arg Thr Ile Ser Lys Ala Asp Ala Glu Ser Glu Glu Leu Gly Phe Lys 450 455 460

Asp Ala Ala Asp His His Thr Asp Asp Val Thr His Cys Leu Phe Gly 465 470 475 480

Gly Glu Leu Ser Leu Ser Asn Pro Asp Gln Gln Val Ile Gly Leu Ala 485 490 495

Gly Asn Pro Thr Asp Thr Ser Gln Pro Tyr Ser Gln Glu Gly Asn Lys
500 505 510

Asp Leu Ala Phe Met Asp Met Lys Lys Leu Ala Gln Phe Leu Ala Gly
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<212> DNA

<213> Pseudomonas syringae

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<212> PRT

<213> Pseudomonas syringae

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Pro Ala Ser Gln Ala Arg Asp Arg Glu Met Leu Leu Arg Ala Arg 50 55 60

Pro Leu Ser Arg Gln Thr Arg Glu Trp Val Ala Gln Gly Met Pro Pro 65 70 75 80

Thr Ala Glu Ala Gly Val Pro Ile Arg Pro Gln Glu Ser Ala Glu Ala 85 90 95

Ala Ala Pro Gln Ala Arg Ala Glu Glu Arg His Thr Pro Glu Ala Asp 100 105 110

Ala Ala Ser His Val Arg Thr Glu Gly Gly Arg Thr Pro Gln Ala 115 120 125

Leu Ala Gly Thr Ser Pro Arg His Thr Gly Ala Val Pro His Ala Asn 130 135 140

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Val Ser Arg Arg Pro Asp Ser Ala Arg Ala Thr Arg Leu Gln Val Ile 405 410 415

Pro Ala Arg Glu Asp Tyr Glu Asn Asn Val Ala Tyr Gly Val Arg Leu 420 · 425 430

Leu Ser Leu Asn Pro Gly Ala Gly Val Arg Glu Thr Val Ala Ala Phe 435 440 445

Val Asn Asn Arg Tyr Glu Arg Gln Ala Val Val Ala Asp Ile Arg Ala 450 455 460

Ala Leu Asn Leu Ser Lys Gln Phe Asn Lys Leu Arg Thr Val Ser Lys 465 470 475 480

Ala Asp Ala Ala Ser Asn Lys Pro Gly Phe Lys Asp Ala Ala Asp His
485 490 495

Pro Asp Asp Ala Thr Gln Cys Leu Phe Gly Glu Glu Leu Ser Leu Thr 500 505 510

Ser Ser Asp Gln Gln Val Ile Gly Leu Ala Gly Lys Ala Thr Asp Met 515 520 525

Ser Glu Ser Tyr Ser Arg Glu Ala Asn Lys Asp Leu Val Phe Met Asp 530 535 540

Met Lys Lys Leu Ala Gln Phe Leu Ala Gly Lys Pro Glu His Pro Met 545 550 555 560

Thr Arg Glu Thr Leu Asn Ala Glu Asn Ile Ala Lys Tyr Ala Phe Arg 565 570 575

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Ile Val Pro

<210> 5

<211> 1740

<212> DNA

<213> Pseudomonas syringae

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cgcttgccgg cgcctccgga tgcacccgcg tcgcaggcgc gagatcgacg cgaaatgctt 180
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<222> (367)
<223> Xaa at position 367 can be any amino acid

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 50 55 60
- Pro Leu Ser Arg Gln Thr Arg Glu Trp Val Ala Gln Gly Met Pro Pro 65 70 75 80
- Thr Ala Glu Ala Gly Val Pro Ile Arg Pro Gln Glu Ser Ala Glu Ala 85 90 95
- Ala Ala Pro Gln Ala Arg Ala Glu Glu Arg His Thr Pro Glu Ala Asp 100 105 110
- Ala Ala Ser His Val Arg Thr Glu Gly Gly Arg Thr Pro Gln Ala 115 120 125
- Leu Ala Gly Thr Ser Pro Arg His Thr Gly Ala Val Pro His Ala Asn 130 135 140
- Arg Ile Val Gln Gln Leu Val Asp Ala Gly Ala Asp Leu Ala Gly Ile 145 150 155 160
- Asn Thr Met Ile Asp Asn Ala Met Arg Arg His Ala Ile Ala Leu Pro 165 170 175
- Ser Arg Thr Val Gln Ser Ile Leu Ile Glu His Phe Pro His Leu Leu 180 185 190
- Ala Gly Glu Leu Ile Ser Gly Ser Glu Leu Ala Thr Ala Phe Arg Ala 195 200 205
- Ala Leu Arg Arg Glu Val Arg Gln Gln Glu Ala Ser Ala Pro Pro Arg 210 215 220
- Thr Thr Ala Arg Ser Ser Val Arg Thr Pro Glu Arg Ser Thr Val Pro 225 230 235 240
- Pro Thr Ser Thr Glu Ser Ser Ser Gly Ser Asn Gln Arg Thr Leu Leu 245 250 255
- Gly Arg Phe Ala Gly Leu Met Thr Pro Asn Gln Arg Arg Pro Ser Ser 260 265 270
- Ala Ser Asn Ala Ser Ala Ser Gln Arg Pro Val Asp Arg Ser Pro Pro 275 280 285

Arg Val Asn Gln Val Pro Thr Gly Ala Asn Arg Val Val Met Arg Asn His Gly Asn Asn Glu Ala Asp Ala Ala Leu Gln Gly Leu Ala Gln Gln Gly Val Asp Met Glu Asp Leu Arg Ala Ala Leu Glu Arg His Ile Leu His Arg Arg Pro Ile Pro Met Asp Ile Ala Tyr Ala Leu Gln Gly Val Gly Ile Ala Pro Ser Ile Asp Thr Gly Glu Ser Leu Met Glu Xaa Pro Leu Met Asn Leu Ser Val Ala Leu His Arg Ala Leu Gly Pro Arg Pro Ala Arq Ala Gln Ala Pro Arg Pro Ala Val Pro Val Ala Pro Ala Thr Val Ser Arg Arg Pro Asp Ser Ala Arg Ala Thr Arg Leu Gln Val Ile Pro Ala Arg Glu Asp Tyr Glu Asn Asn Val Ala Tyr Gly Val Arg Leu Leu Ser Leu Asn Pro Gly Ala Trp Val Arg Glu Thr Val Ala Ala Phe Val Asn Asn Arg Tyr Glu Arg Gln Ala Val Val Ala Asp Ile Arg Ala Ala Leu Asn Leu Ser Lys Gln Phe Asn Lys Leu Arg Thr Val Ser Lys Ala Asp Ala Ala Ser Asn Lys Pro Gly Phe Lys Asp Leu Ala Asp His Pro Asp Asp Ala Thr Gln Cys Leu Phe Gly Glu Glu Leu Ser Leu Thr Ser Ser Val Gln Gln Val Ile Gly Leu Ala Gly Lys Ala Thr Asp Met

Ser Glu Ser Tyr Ser Arg Glu Ala Asn Lys Asp Leu Val Phe Met Asp

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Thr Arg Glu Thr Leu Asn Ala Glu Asn Ile Ala Lys Tyr Ala Phe Arg 565 570 575

Ile Val Pro

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<212> PRT

<213> Pseudomonas syringae

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Pro Ala Ser Gln Ala Arg Asp Arg Glu Met Leu Leu Arg Ala Arg
50 55 60

Pro Leu Ser Arg Gln Thr Arg Glu Trp Val Ala Gln Gly Met Pro Pro 65 70 75 80

Thr Ala Glu Ala Gly Val Pro Ile Arg Pro Gln Glu Ser Ala Glu Ala 85 90 95

Ala Ala Pro Gln Ala Arg Ala Glu Glu Arg His Thr Pro Glu Ala Asp 100 105 110

Ala Ala Ser His Val Arg Thr Glu Gly Gly Arg Thr Pro Gln Ala 115 120 125

Leu Ala Gly Thr Ser Pro Arg His Thr Gly Ala Val Pro His Ala Asn 130 135 140

Asn Thr Met Ile Asp Asn Ala Met Arg Arg His Ala Ile Ala Leu Pro 165 170 175

Ser Arg Thr Val Gln Ser Ile Leu Ile Glu His Phe Pro His Leu Leu 180 185 190

Ala Gly Glu Leu Ile Ser Gly Ser Glu Leu Ala Thr Ala Phe Arg Ala 195 200 205

Ala Leu Arg Arg Glu Val Arg Gln Gln Glu Ala Ser Ala Pro Pro Arg 210 215 220

Thr Ala Ala Arg Ser Ser Val Arg Thr Pro Glu Arg Ser Thr Val Pro

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Gly	Ile	Ala 355	Pro	Ser	Ile	Asp	Thr 360	Gly	Glu	Ser	Leu	Met 365	Glu	Asn	Pro
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Ala 385	_	Ala	Gln	Ala	Pro 390	Arg	Pro	Ala	Val	Pro 395		Ala	Pro	Ala	Thr
Val	Ser	Arg	Arg	Pro 405		Ser	Ala	Arg	Ala 410		Arg	Leu	Gln	Val 415	
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485 490 495

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Ser Glu Ser Tyr Ser Arg Glu Ala Asn Lys Asp Leu Val Phe Met Asp 530 535 540

Met Lys Lys Leu Ala Gln Phe Leu Ala Gly Lys Pro Glu His Pro Met 545 550 555 560

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<212> PRT

<213> Pseudomonas syringae

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<212> PRT

<213> Pseudomonas syringae

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<213> Pseudomonas syringae

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<213> Pseudomonas syringae

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<400> 23
Phe Met Asp Met Lys Lys Leu Ala Gln Phe Leu Ala Gly Lys Pro Glu
His Pro Met Thr Arg Glu Thr Leu Asn Ala Glu Asn Ile Ala Lys Tyr
             20
                                  25
Ala Phe Arg Ile Val Pro
          35
 <210> 24
 <211> 553
 <212> PRT
 <213> Pseudomonas syringae
 <220>
 <221> UNSURE
 <222> (1)..(6)
 <223> Xaa at positions 1-6 can be any amino acid
 <220>
 <221> UNSURE
 <222> (23)..(31)
 <223> Xaa at positions 23-31 can be any amino acid
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<220>
<221> UNSURE
<222> (41)..(70)
<223> Xaa at positions 41-70 can be any amino acid
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<222> (79)..(131)
<223> Xaa at positions 79-131 can be any amino acid
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<221> UNSURE
<222> (138)..(220)
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<221> UNSURE
<222> (226)..(253)
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<221> UNSURE
<222> (265)..(360)
<223> Xaa at positions 265-360 can be any amino acid
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<221> UNSURE
<222> (373)
<223> Xaa at position 373 can be any amino acid
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<221> UNSURE
<222> (379)..(380)
<223> Xaa at positions 379-380 can be any amino acid
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<221> UNSURE
<222> (386)..(390)
<223> Xaa at positions 386-390 can be any amino acid
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<221> UNSURE
<222> (406)..(433)
<223> Xaa at positions 406-433 can be any amino acid
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<221> UNSURE
<222> (439)..(451)
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<223> Xaa at positions 439-451 can be any amino acid

<220>

<221> UNSURE

<222> (457)..(489)

<223> Xaa at positions 457-489 can be any amino acid

<220>

<221> UNSURE

<222> (498)..(515)

<223> Xaa at positions 498-515 can be any amino acid

<400> 24

Xaa Xaa Xaa Xaa Xaa Ala Gly Pro Ser Gly Ala Tyr Phe Val Gly 1 5 10 15

His Thr Asp Pro Glu Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser 20 25 30

Xaa Xaa Xaa Xaa Xaa Leu Ser Arg Gln Thr Arg Glu Trp Xaa Xaa 65 70 75 80

Xaa Xaa Xaa Ile Val Gln Gln Leu Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa 130 135 140

Arg Ser Pro Pro Arg Val Asn Gln Xaa Ala Pro Arg Pro Ala Val Pro Val Ala Pro Ala Thr Xaa Ser Arg Arg Pro Asp Xaa Xaa Arg Ala Thr Arg Leu Xaa Xaa Xaa Xaa Arg Glu Asp Tyr Glu Asn Asn Val Ala Tyr

Xaa Xaa Xaa Ser Lys Ala Asp Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa 450 455 460 470 475 480 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Gln Val Ile Gly Leu Ala 485 490 500 505 Xaa Xaa Xaa Phe Met Asp Met Lys Lys Leu Ala Gln Phe Leu Ala Gly 520 Lys Pro Glu His Pro Met Thr Arg Glu Thr Leu Asn Ala Glu Asn Ile 530 535 540 Ala Lys Tyr Ala Phe Arg Ile Val Pro 545 550 <210> 25 <211> 21 <212> DNA <213> Artificial Sequence <223> Description of Artificial Sequence: primer <400> 25 gtaatgcagc gcctccctat c 21 <210> 26 <211> 21 <212> DNA <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 26

tcaggggact attctaaaag c

<210> 27

. 21

WO 20	04/016745	PCT/US2003/025247
<211> <212>	DNA	
	Artificial Sequence	
<220> <223>	Description of Artificial Sequence: primer	
<400>	27	
atggcg	gggta tcaatagagc g	21
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: primer	
<400>	28	
tcacac	ccgc aatcgtgttg cac	23
		25
<210>	29	
<211>	23	
<212>	DNA	
<213>	Artificial Sequence	
<220>	•	
<223>	Description of Artificial Sequence: primer	
<400>	29	
tcatac	atgt ctttcaaggg ccg	23
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<211>	22	
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<220>		
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gtatca	atag agcgggacca tc	22

<210> 31

WO 2004/016745	PCT/US2003/025247
<211> 20	
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<400> 31	
cactgaccac ttgctgaacg	20

<210> 32 <211> 22 <212> DNA <213> Artificial Sequence

<400> 32
tgtcgcgcca aaccagggcg tg 22

<223> Description of Artificial Sequence: primer

<210> 33 <211> 18 <212> DNA <213> Artificial Sequence

<223> Description of Artificial Sequence: primer
<400> 33

ccatcaccag ggcaaacc 18

<210> 34 <211> 24 <212> DNA <213> Artificial Sequence <220>

<223> Description of Artificial Sequence: primer
<400> 34

gtatcgttca gcaattggtc agtg 24

<210> 35

<220>

WO 20	04/016745		PCT/US2003/025247
<211> <212> <213>			
<220> <223>	Description of Artificial Sequence	e: primer	
<400> acgcgt	35 atgg gtctttggtt g		21
<210> <211> <212> <213>	17		
<220> <223>	Description of Artificial Sequence	e: primer	
<400> acgatt	36 gcgg gtgatgc		17
<210> <211> <212> <213>	20		
<220> <223>	Description of Artificial Sequence	e: primer	
<400> cctctt	37 :ggct gtaaggctgc		20
<210> <211> <212> <213>	22		
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<400> atggcg	38 ggta tcaatagagc gg		22

<210> 39

WO 2004/016745	PCT/US2003/025247
<211> 39	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: primer	
<400> 39	
gaattegata teaagettat egatacegte gacetegag	39
<210> 40	
<211> 46	
<212> DNA	
<213> Artificial Sequence	
<220>	
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<400> 40	
gaattcgaat tgggatatca agcttatcga taccgtcgac ctcgag	46
<210> 41	
<211> 44	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: primer	
<400> 41	
gaattegaat tgatateaag ettategata eegtegaeet egag	44
<210> 42	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
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<400> 42	

<210> 43

cggaggcgaa cagccgagca g

WO 2004/016745	PCT/US2003/025247
<211> 20	
<212> DNA	
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<220>	
<223> Description of Artificial Sequence: primer	
<400> 43	
gcaattcgaa gtggcagtga	20
<210> 44	
<211> 26	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: primer	
<400> 44	
ttatgcttta ttggtatttt tagagg	26
4010× 4E	
<210> 45	
<211> 20	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: primer	
<400> 45	
atggcgggta tcaatagagc	20
<210> 46	
<211> 26	
<212> DNA	
<213> Pseudomonas syringae	
<220>	
<221> unsure	
<222> (7)(22)	
<223> N at positions 7-22 can be A, C, T, or G	

2-a

26

<400> 46

ggaactnnnn nnnnnnnnn nnccac

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<210> 47
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: primer
<400> 47
Met Ala Gly Ile Asn Arg Ala Gly
<210> 48
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: consensus
      sequence
<220>
<221> UNSURE
<222> (2)
<223> Xaa at position 2 can be any amino acid except E
<220>
<221> UNSURE
<222> (3)
<223> Xaa at position 3 can be any amino acid except D
<220>
<221> UNSURE
<222> (4)
<223> Xaa at position 4 can be any amino acid except R
<220>
<221> UNSURE
<222> (5)
<223> Xaa at position 5 can be any amino acid except K
<220>
<221> UNSURE
<222> (6)
<223> Xaa at position 6 can be any amino acid except H
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<220>
<221> UNSURE
<222> (7)
<223> Xaa at position 7 can be any amino acid except P
<220>
<221> UNSURE
<222> (8)
<223> Xaa at position 8 can be any amino acid except F
<220>
<221> UNSURE
<222> (9)
<223> Xaa at position 9 can be any amino acid except Y
<220>
<221> UNSURE
<222> (10)
<223> Xaa at position 10 can be any amino acid except W
<220>
<221> UNSURE
<222> (11)..(12)
<223> Xaa at positions 11-12 can be any amino acid
<220>
<221> UNSURE
<222> (19)
<223> Xaa at position 19 can be any amino acid except P
<400> 48
Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Thr Ala Gly
Cys Asn Xaa
<210> 49
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: consensus
      sequence
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28

<220>

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<221> UNSURE
<222> (2)..(3)
<223> Xaa at positions 2-3 can be any amino acid
<220>
<221> UNSURE
<222> (5)..(6)
<223> Xaa at positions 5-6 can be any amino acid
<220>
<221> UNSURE
<222> (8)..(9)
<223> Xaa at positions 8-9 can be any amino acid
<220>
<221> UNSURE
<222> (11)
<223> Xaa at position 11 can be any amino acid
<220>
<221> UNSURE
<222> (13)..(15)
<223> Xaa at positions 13-15 can be any amino acid
<400> 49
Arg Xaa Xaa Leu Xaa Xaa Ser Xaa Xaa Leu Xaa Arg Xaa Xaa Kaa Glu
 1
                  5
                                     10
<210> 50
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: consensus
      sequence
<220>
<221> UNSURE
<222> (2)
<223> Xaa at position 2 can be any amino acid
<220>
<221> UNSURE
<222> (4)
<223> Xaa at position 4 can be any amino acid
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PCT/US2003/025247

WO 2004/016745 <400> 50 Ser Xaa Arg Xaa Arg <210> 51 <211> 9 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: consensus sequence <220> <221> UNSURE <222> (4)..(8)

<223> Xaa at positions 4-8 can be any amino acid

<400> 51 Asn Pro Ser Xaa Xaa Xaa Xaa Ser

<210> 52 <211> 539 <212> PRT <213> Pseudomonas syringae

<400> 52 Met Pro Gly Ile Asn Gly Ala Gly Pro Ser Asn Phe Phe Trp Gln Trp 10

Arg Thr Asp Gly Glu Pro Val Thr Glu Arg Glu His Asp Ser Ser Arg 20 25

Ser Ala Ser Ser Ala Asn Ser Pro Glu Leu Pro Pro Pro Ala Ser Pro

Ala Glu Ser Gly Arg Gln Arg Leu Leu Arg Ser Ser Ala Leu Ser Arg 55 60

Gln Thr Arg Glu Trp Leu Glu Ala Thr Pro Ala Arg Val Gln Gly Ala 65 70 75

Thr Pro Pro Ala Glu Ala Arg Gln Ser Pro Glu Ala Gln Gln Ala Glu 85 90

Arg Ile Val Gln Glu Leu Val Arg Gly Gly Ala Asp Leu Asn Asn Val Arg Thr Met Leu Arg Asn Val Met Asp Asn Asn Ala Val Ala Phe Ser Arg Val Glu Arg Asp Ile Leu Leu Gln His Phe Pro Asn Met Pro Met Thr Gly Ile Ser Ser Asp Ser Val Leu Ala Asn Glu Leu Arg Gln Arg Leu Arg Gln Thr Val Arg Gln Gln Arg Ile Gln Ser Ser Thr Pro Ala Arg Leu Ala Asp Ser Ser Ser Gly Ser Ser Gln Arg Ser Leu Ile Gly Arg Ser Thr Met Leu Met Thr Pro Gly Arg Ser Ser Ser Ser Ser Ala Ala Ala Ser Arg Thr Ser Val Asp Arg His Pro Gln Gly Leu Asp Leu Glu Ser Ala Arg Leu Ala Ser Ala Ala Arg His Asn His Ser Ala Asn Gln Thr Asn Glu Ala Leu Arg Arg Leu Thr Gln Glu Gly Val Asp Met Glu Arg Leu Arg Thr Ser Leu Gly Arg Tyr Ile Met Ser Leu Glu Pro Leu Pro Pro Asp Leu Arg Arg Ala Leu Glu Ser Val Gly Ile Asn Pro Phe Ile Pro Glu Glu Leu Ser Leu Val Asp His Pro Val Leu Asn Phe Ser Ala Ala Leu Asn Arg Met Leu Ala Ser Arg Gln Thr Thr Asn Ser Pro Glu Leu Pro Pro Leu Ala Ser Ser Ala Glu Ser Gly Arg Arg Arg Leu Leu Arg Ser Pro Pro Leu Leu Ser Gly Gln Arg Glu Trp Ile

 $2 - \delta$

Glu Gln Ser Met Arg Gln Glu Ala Glu Pro Gln Ser Ser Arg Leu Asn 355 360 365

- Arg Ala Val Arg Leu Ala Val Met Pro Pro Gln Asn Glu Asn Glu Asp 370 375 380
- Asn Val Ala Tyr Ala Ile Arg Leu Arg Arg Leu Asn Pro Gly Ala Asp 385 390 395 400
- Val Ser Arg Val Val Ala Ser Phe Ile Thr Asp Pro Ala Ala Arg Gln 405 410 415
- Gln Val Val Asn Asp Ile Arg Ala Ala Leu Asp Ile Ala Pro Gln Phe 420 425 430
- Ser Gln Leu Arg Thr Ile Ser Lys Ala Asp Ala Glu Ser Glu Glu Leu 435 440 445
- Gly Phe Arg Asp Ala Ala Asp His Pro Asp Asn Ala Thr Ser Cys Leu 450 455 460
- Phe Gly Glu Glu Leu Ser Leu Ser Asn Pro Asp Gln Gln Val Ile Gly 465 470 475 480
- Leu Ala Val Asn Pro Thr Asp Lys Pro Gln Pro Tyr Ser Gln Glu Val
 485 490 495
- Asn Lys Ala Leu Thr Phe Met Asp Met Lys Lys Leu Ala Gln Tyr Leu 500 505 510
- Ala Asp Lys Pro Glu His Pro Leu Asn Arg Gln Arg Leu Asp Ala Lys 515 520 525
- Asn Ile Ala Lys Tyr Ala Phe Lys Ile Val Pro 530 535

<210> 53

<211> 158

<212> PRT

. <213> Pseudomonas syringae

<400> 53

- Met Gly Asn Ile Cys Val Gly Gly Ser Arg Met Ala His Gln Val Asn
 1 5 10 15
- Ser Pro Asp Arg Val Ser Asn Asn Ser Gly Asp Glu Asp Asn Val Thr 20 25 30

Ser Ser Gln Leu Leu Ser Val Arg His Gln Leu Ala Glu Ser Ala Gly 35 40 45

Leu Pro Arg Asp Gln His Glu Phe Val Ser Ser Gln Ala Pro Gln Ser 50 55 60

Leu Arg Asn Arg Tyr Asn Asn Leu Tyr Ser His Thr Gln Arg Thr Leu 65 70 75 80

Asp Met Ala Asp Met Gln His Arg Tyr Met Thr Gly Ala Ser Gly Ile 85 90 95

Asn Pro Gly Met Leu Pro His Glu Asn Val Asp Asp Met Arg Ser Ala 100 105 110

Ile Thr Asp Trp Ser Asp Met Arg Glu Ala Leu Gln His Ala Met Gly
115 120 125

Ile His Ala Asp Ile Pro Pro Ser Pro Glu Arg Phe Val Ala Thr Met 130 135 140

Asn Pro Ser Gly Ser Ile Arg Met Ser Thr Leu Ser Pro Ser 145 150 155

<210> 54

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: consensus sequence

<220>

<221> UNSURE

<222> (2)

<223> Xaa at position 2 can be any amino acid

<220>

<221> UNSURE

<222> (4)..(5)

<223> Xaa at positions 4-5 can be any amino acid

<220>

<221> UNSURE

<222> (7)..(8)

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<223> Xaa at positions 7-8 can be any amino acid
<220>
<221> UNSURE
<222> (10)..(11)
<223> Xaa at positions 10-11 can be any amino acid
<220>
<221> UNSURE
<222> (13)
<223> Xaa at position 13 can be any amino acid
<220>
<221> UNSURE
<222> (15)..(17)
<223> Xaa at positions 15-17 can be any amino acid
<400> 54
Ser Xaa Arg Xaa Leu Xaa Xaa Ser Xaa Xaa Leu Xaa Arg Xaa Xaa
                                     10
```

Xaa Glu